Application no.: 09/839,336

Office Action dated 10/07/2008

Atty. Docket No.: VB.HEREUR.PT2
Customer No.: 24943

Amendments to the Claims:

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This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (currently amended) A system for software maintenance of a network access

device, said system comprising:

(a) an access point device for making a wireless connection between a mobile computer and a

communications network, said device including (i) a memory of software containing first

device management software for providing a device management function; and (ii) software

loading apparatus for automatically loading second software through said network for

replacing said first software, said device configured to request and receive a version code of

said second software through said network and directly begins loading upon checking that

said first software requires replacement due to a comparison determining the first software

contains code that is different from the second software, without manual maintenance by a

user such that the access point device is self-maintaining.

2. (previously presented) A system as recited in claim 1 further comprising a

server including apparatus for receiving data input from a computer for installation and

storing said second software for said loading by said software loading apparatus through said

network.

3. (previously presented) A system as recited in claim 2 wherein said device

further includes version checker apparatus for checking a version of said second software

against a version of said first software.

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4. (original) A system as recited in claim 3 further comprising first authentication

5. (original) A system as recited in claim 4 further comprising second authentication

apparatus for authenticating an identity of said device to said server.

apparatus for authenticating an identity of said server to said device.

6. (previously presented) A system as recited in claim 3 further comprising

automatic apparatus for automatically performing said checking and said loading at a

predetermined time.

7. (original) A system as recited in claim 6 further comprising shut-down apparatus

for stopping an acceptance of new connections prior to said loading.

8. (previously presented) A system as recited in claim 1 wherein said loading is

performed automatically at a predetermined time.

9. (currently amended) A method of maintaining software on a communication

network access device, said method comprising:

(a) first storing a first device management software in a memory in said device;

(b) periodically checking availability of a second device management software by said device

requesting and receiving a version code of said second device management software through

said network and comparing a version of said second device management software against a

version of said first device management software; and

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(c) for the version of said second device management software that is a different version from

said first software device management, automatically loading the second device management

software in said memory, immediately following said checking, through said network for

replacing said first software such that the device is self-maintaining.

10. (currently amended) A method as recited in claim 9 further comprising inputting

upgrade data to a server from a computer, said datà for installing and storing said second

device management software in said server, said server in communication with said device

through said network, and said server providing said version code of the stored second device

management software to said device in response to receiving the request for said version code

from said device.

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11. (cancelled)

12. (previously presented) A method as recited in claim 10 further comprising first

authenticating an identity of said server to said device.

13. (original) A method as recited in claim 12 further comprising second

authenticating an identity of said device to said server.

14. (previously presented) A method as recited in claim 10 further comprising

automatically performing said checking and said loading at a predetermined time without

manual maintenance from a user.

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15. (original) A method as recited in claim 14 further comprising stopping an acceptance of a new connection prior to said loading.

16. (previously presented) A method as recited in claim 9 further comprising automatically performing said loading at a predetermined time without manual maintenance from a user.

17. (currently amended) A system providing access to a communication network comprising:

- (a) an access point device for making a wireless connection between a mobile user and a source network, said access point device including (i) first device management software for providing a device management function; (ii) access device loading apparatus for loading second device management software through a network for replacing said first software due to a comparison determining the first software contains code that is different from the second software, without manual maintenance by a user such that the access point device is self-maintaining;
- (b) user authorization server apparatus for authorizing a mobile user to access the communication network through said access point device and said source network in which the mobile user is authorized through one or more embedded IDs generated by said source network into an embedded reserved field of a file; and
- (c) remote maintenance server apparatus including apparatus for receiving and storing an upgrade to said first software from a network connected computer for creation of said second software, and for facilitating said loading in cooperation with said access point device.

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18. (previously presented) A system as recited in claim 17 wherein said user authorization server apparatus includes

- (a) source network server apparatus including apparatus for receiving a request from said mobile user to access said communication network, and for determining if said mobile user is currently authorized to access the communication network, and for a currently authorized mobile user to allow said authorized mobile user said access, and for an unauthorized mobile user, not to forward said request;
- (b) redirection server apparatus for receiving from said source server said forwarded request by said unauthorized mobile user for communication network access, and for redirecting said request; and
- (c) user authentication server apparatus for receiving said unauthorized user's request from said redirection server, and for authorizing said unauthorized mobile user to access said communication network; and
- (d) gate keeper server apparatus for receiving an authorization from said authentication server and for informing said source network apparatus that said mobile user is to be allowed access to said communication network.
- 19. (previously presented) A system as recited in claim 17 wherein said access point device further includes version checker apparatus for checking a version of said second software against a version of said first software.
- 20. (original) A system as recited in claim 19 further comprising first authentication apparatus for authenticating an identity of said remote maintenance server to said access point device.

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21. (original) A system as recited in claim 20 further comprising second authentication apparatus for authenticating an identity of said access point device to said remote maintenance server.

- 22. (previously presented) A system as recited in claim 19 further comprising apparatus for automatically performing said checking and said loading at a predetermined time.
- 23. (original) A system as recited in claim 22 further comprising shut-down apparatus for stopping an acceptance of new connections prior to said loading.
- 24. (previously presented) A system as recited in claim 17 wherein said loading is performed automatically at a predetermined time.